



This is to certify that

Keraani Naceur

successfully completed and received a passing grade in

Python 101 for Data Science

(PY0101EN, provided by IBM)

A course on cognitiveclass.ai

Powered by IBM Developer Skills Network.

Issued by
Cognitive Class

Cognitive Class

October 23, 2023

Authenticity of this certificate can be validated by going to:

<https://courses.cognitiveclass.ai/certificates/29e33bb975ce4bbc9fdd142a04eec3ae>